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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,430	09/30/2003	Ali-Reza Adl-Tabatabai	42P17035	7017
8791 7590 11/27/2007 BLAKELY SOKOLOFF TAYLOR & ZAFMAN 1279 OAKMEAD PARKWAY			EXAMINER	
			LEE, CHUN KUAN	
SUNNYVALE	SUNNYVALE, CA 94085-4040		ART UNIT	PAPER NUMBER
			2181	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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·	Application No.	Applicant(s)			
	10/676,430	ADL-TABATABAI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Chun-Kuan (Mike) Lee	2181			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 18 Oc	ctober 2007.				
,	action is non-final.				
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-3,5-9,11-15,18,19 and 21-28 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-3,5-9,11-15,18,19 and 21-28</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>30 September 2003</u> is/are: a)⊠ accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:					
<ol> <li>Certified copies of the priority documents have been received.</li> </ol>					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachmant(a)					
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date  5) Notice of Informal Patent Application				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	ателі Арріісатіол			

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#### **DETAILED ACTION**

### **CONTINUED EXAMINATION UNDER 37 CFR 1.114**

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/18/2007 has been entered.

### RESPONSE TO ARGUMENTS

2. Applicant's arguments with respect to claims 1-3, 5-9, 11-15, 18-19 and 21-28 have been considered but are moot in view of the new ground(s) of rejection. Currently, claims 4, 10, 16-17, 20 and 29 are canceled and claims 1-3, 5-9, 11-15, 18-19 and 21-28 are pending for examination.

## I. INFORMATION CONCERNING OATH/DECLARATION

### Oath/Declaration

3. The applicant's oath/declaration has been reviewed by the examiner and is found to conform to the requirements prescribed in 37 C.F.R. 1.63.

### II. INFORMATION CONCERNING DRAWINGS

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### **Drawings**

4. The applicant's drawings submitted are acceptable for examination purposes.

#### III. REJECTIONS BASED ON 35 U.S.C. 112

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It appear unclear as to how the second symbol is divided into a second component and a second component, it appears there is repetition. The examiner will assumed the following claimed limitation of "... dividing a second component into a first component and a second component ..." for the current examination.

### IV. REJECTIONS BASED ON PRIOR ART

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 6. Claims 1, 7, 23 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Tremaine</u> (US Patent 6,775,751) in view of <u>Dye et al.</u> (US Patent 6,879,266) and Goldberg (US Patent 7,035,656).
- 7. As per claims 1, 7, 23 and 26, <u>Tremaine</u> teaches a computer system and method comprising:

a central processing unit (CPU) (Fig. 1, ref. 101);

a cache memory coupled to the CPU having a plurality of compressible cache lines to store additional data (col. 1, II. 22-43);

receiving a string of data symbols (col. 1, II. 22-43 and col. 5, II. 1-11);

a register (Fig. 1, ref. 113) to store a plurality of fixed length data symbols to be compressed (col. 5, Il. 1-11);

a chipset having a cache controller (Fig. 1, ref. 102), coupled to the CPU (Fig. 1, ref. 101) and the cache memory (col. 1, II. 22-43), including:

compression logic (Fig. 1, ref. 104) to compress each of the plurality of cache lines (data symbols) by compressing the data within a compressed cache line into a compressed data block (compressed data block) having a plurality of compressed symbols (Fig. 2, ref. 204) and translation information (Fig. 2, ref. 207) (col. 5, I. 35 to col. 6, I. 41);

the compressed symbols (Fig. 2, ref. 204) and translation information (Fig. 2, ref. 207) having a length and offset within the compressed data block (compressed data block) (col. 5, I. 35 to col. 6, I. 41 and col. 8, II. 21-31);

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wherein each of the compressed symbol have a degree of compressibility (DOC) to indicate a type of compression performed on the associated compressed symbol (col. 8, II. 29-58); and

a main memory (Fig. 1, ref. 103) coupled to the chipset (Fig. 1, ref. 102).

Tremaine does not expressly teach the computer system and method comprising transferring a plurality of dictionary elements; a dictionary register; compressing the data into a fixed sized compressed data block having fix length and fix offset; and an encoded tag bit.

Dye teaches a system and a method comprising:

a dictionary register (col. 24, II. 2-54), for implementing the dictionary based compression/decompression;

compressing the data into a fixed sized compressed data block having fix length and fix offset (col. 7, II. 20-30 and col. 33, II. 56-62); and

an encoded tag bit (col. 35, II. 61-64).

It would have been obvious for one of ordinary skill in this art, at the time of invention was made to include <u>Dye</u>'s parallel compression/decompression's fix compressed data size and tag bit into <u>Tremaine</u>'s computer system and method for the benefit of removing system bottlenecks and increase performance for data compression/decompression (<u>Dye</u>, Abstract) to obtain the invention as specified in claims 1, 7, 23 and 26.

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<u>Tremaine</u> and <u>Dye</u> does not teach the transferring a plurality of dictionary elements.

Goldberg teaches a data compression system and method comprising transferring dictionary elements (col. 1, II. 17-40).

It would have been obvious for one of ordinary skill in this art, at the time of invention was made to include <u>Goldberg</u>'s dictionary element into <u>Tremaine</u> and <u>Dye</u>'s compression system and method for the benefit of optimizing the amount of data being transferred by reducing the actual amount of data transferred and enabling more resource for error detection and data correction (<u>Goldberg</u>, col. 1, II. 23-26) to obtain the invention as specified in claims 1, 7, 23 and 26.

- 8. Claims 2-3, 5-6, 8-9, 11-12, 24-25 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Tremaine</u> (US Patent 6,775,751) in view of <u>Dye et al.</u> (US Patent 6,879,266) and <u>Goldberg</u> (US Patent 7,035,656) as applied to claims 1, 7, 23 and 26 above, and further in view of Castelli et al. (US Patent 6,847,315).
- 9. As per claims 2 and 8, <u>Tremaine</u>, <u>Dye</u> and <u>Goldberg</u> teach all the limitations of claims 1 and 7 as discussed above, where <u>Tremaine</u> further teaches the compression system and method comprising a first symbol would be compared with the dictionary element (Tremaine, col. 5, II. 35-49).

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<u>Tremaine</u>, <u>Dye</u> and <u>Goldberg</u> do not teach the compression system and method comprising dividing a first symbol into a first component and a second component; and comparing the first component with the dictionary elements.

<u>Castelli</u> teaches a data compression system and method comprising a data compressor separating a uncompressed data into a first portion and a second portion, wherein one of the portion is left uncompressed and the other portion is compressed (col. 1, II. 60-65 and col. 2, II. 10-18).

It would have been obvious to one of ordinary skill in this art, at the time of invention was made to include <u>Castelli</u>'s separation of the uncompressed data into <u>Tremaine</u>, <u>Dye</u> and <u>Goldberg</u>'s the compression system and method for the benefit of reducing latency associated with the transferring of compressed data as data is compressed at the transmitter, transmitted in compressed form and decompressed at the receiver (<u>Castelli</u>, col. 1, II. 57-59). The resulting combination of the references further teaches the compression system and method comprising dividing the uncompressed data (e.g. first symbol) into the first portion (e.g. first component) and the second portion (e.g. second component); and comparing the first component With the dictionary elements.

10. As per claim 3, <u>Tremaine</u>, <u>Dye</u>, <u>Goldberg</u> and <u>Castelli</u> teach all the limitations of claim 2 as discussed above, where <u>Tremaine</u> and <u>Castelli</u> further teach the compression system and method further comprising compressing the first component to form a first tag if the first component matches a dictionary element (<u>Tremaine</u>, col. 5, II.

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35-49 and Castelli, Fig. 7 and col. 2, II. 10-18), such that if the uncompressed data (i.e. first component) matches the dictionary element, the uncompressed data would obviously be encoded into the compressed state (i.e. first tag).

- 11. As per claim 5, Tremaine, Dye, Goldberg and Castelli teach all the limitations of claim 3 as discussed above, where Goldberg and Castelli further teach the compression system and method further comprising storing the first component at a dictionary element if the first component does not match a dictionary element (Goldberg, col. 1, II. 31-35 and Castelli, Fig. 7), as the dictionary must also be transmitted along with the compressed data for proper decompressing.
- As per claim 6, Tremaine, Dye, Goldberg and Castelli teach all the limitations of 12. claim 3 as discussed above, where Tremaine and Castelli further teach the compression system and method comprising wherein compressing the data comprises dividing a second symbol into a first component and a second component; and comparing the second component with the dictionary elements (Tremaine, col. 1, II. 22-43 and col. 5, II. 1-11 and Castelli, col. 1, II. 60-65 and col. 2, II. 10-18), as after compressing the first symbol, the subsequent second symbol is compressed in the similar method.
- As per claim 9, Tremaine, Dye, Goldberg and Castelli teach all the limitations of 13. claim 8 as discussed above, where Dye further teaches the compression system and

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method comprising wherein the first and second components are compressed into fixed length compressed symbol (<u>Dye</u>, col. 33, II. 56-62).

- 14. As per claim 11, <u>Tremaine</u>, <u>Dye</u>, <u>Goldberg</u> and <u>Castelli</u> teach all the limitations of claim 8 as discussed above, where <u>Tremaine</u>, <u>Dye</u> and <u>Castelli</u> further teach the compression system and method comprising wherein the first component is received at the compression logic and encoded to form a tag (<u>Tremaine</u>, col. 5, II. 1-11; col. 5, II. 35-49 and col. 6, II. 6-41, <u>Dye</u>, col. 35, II. 61-64 and <u>Castelli</u>, Fig. 7), as the first component would obviously be compressed to form the compressed data.
- 15. As per claim 12, <u>Tremaine</u>, <u>Dye</u>, <u>Goldberg</u> and <u>Castelli</u> teach all the limitations of claim 11 as discussed above, where <u>Castelli</u> further teaches the compression system and method comprising a buffer to store the tag and second component of each symbol as the compressed symbol (<u>Castelli</u>, Fig. 7), as the compressed symbol is buffered in the memory.
- 16. As per claims 24 and 27, <u>Tremaine</u>, <u>Dye</u>, <u>Goldberg</u> and <u>Castelli</u> teach all the limitations of claims 23 and 26 as discussed above, where <u>Tremaine</u> further teach the compression system and method comprising wherein the chipset (cache controller) further comprises decompression logic (<u>Tremaine</u>, Fig. 1, ref. 105) to decompress compressed symbols within a compressed data block to generate uncompressed symbols.

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- 17. As per claim 25, <u>Tremaine</u>, <u>Dye</u>, <u>Goldberg</u> and <u>Castelli</u> teach all the limitations of claim 24 as discussed above, where <u>Dye</u> further teach the compression system and method comprising wherein the decompression logic decompresses the compressed symbols in parallel (<u>Dye</u>, col. 7, II. 20-30).
- 18. Claims 13-14 are rejected under 35 U.S.C. 103(a) as being Unpatentable over <a href="Tremaine">Tremaine</a> (US Patent 6,775,751) in view of <a href="Dye et al.">Dye et al.</a> (US Patent 6,879,266) and <a href="Goldberg">Goldberg</a> (US Patent 7,035,656), and further in view of <a href="Castelli">Castelli</a> et al. (US Patent 6,847,315) as applied to claims 8 and 24 above, and further in view of <a href="Franaszek">Franaszek</a> et al. (US Patent 5,729,228).
- 19. As per claim 13, <u>Tremaine</u>, <u>Dye</u>, <u>Goldberg</u> and <u>Castelli</u> teach all the limitations of claim 8 as discussed above, where <u>Tremaine</u> further teaches the compression system and method comprising wherein the compression logic comprises obviously a no matching logic to determine of the first component has all ones or all zeros (e.g. "all zero" special case) (<u>Tremaine</u>, col. 8, II. 29-58).

<u>Tremaine</u>, <u>Dye</u>, <u>Goldberg</u> and <u>Castelli</u> do not expressly teach the compression system and method comprising dictionary matching logic to determine if the first component matches a dictionary element.

<u>Franaszek</u> teaches a compression system and method comprising a compressor (Fig. 2, ref. 241-244) compressing a corresponding uncompressed sub-block (Fig. 2,

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ref. 221-224) by matching the corresponding uncompressed sub-block to the dictionary (Fig. 2 and col. 2, I. 48 to col. 3, I. 15).

It would have been obvious to one of ordinary skill in this art, at the time of invention was made to include <u>Franaszek</u>'s parallel decompressors into <u>Tremaine</u>, <u>Dye</u>, <u>Goldberg</u> and <u>Castelli</u>'s compression system and method for the benefit of providing even faster data compression and decompression (<u>Franaszek</u>, col. 1, II. 36-37). The resulting combination of the references further teaches the compression system and method comprising the compressor (e.g. dictionary matching logic) to compress the uncompressed data (e.g. first component) by matching the first component with the dictionary element.

- 20. As per claim 14, <u>Tremaine</u>, <u>Dye</u>, <u>Goldberg</u>, <u>Castelli</u> and <u>Franaszek</u> teach all the limitations of claim 13 as discussed above, where <u>Tremaine</u> and <u>Franaszek</u> further teach the compression system and method comprising wherein the compression logic comprises an encoder coupled to the match logic and the no match logic to encode the first component to form a tag if the first component matches a dictionary element, has all ones or zeroes (<u>Tremaine</u>, col. 8, II. 29-58 and <u>Franaszek</u>, Fig. 2, ref. 241-244).
- 21. Claims 15, 19-21 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Dye et al.</u> (US Patent 6,879,266) in view of <u>Goldberg</u> (US Patent 7,035,656).

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22. As per claims 15, 19 and 28, <u>Dye</u> teaches a decompression system and method comprising:

receiving a fixed offset compressed data block having compressed symbols (col. 7, II. 20-30 and col. 33, II. 56-62); and

decompressing each of the compressed symbols in parallel (col. 7, II. 20-30), by: analyzing encoded tag bits within a compressed symbol (col. 35, II. 61-64); and decompressing the compressed symbol to form a symbol based upon a type of compression indicated by the encoded tag bits, wherein each of the compressed symbols are decompressed simultaneously (col. 7, II. 20-30 and col. 35, II. 61-64).

a plurality of decompression units to decompress a corresponding compressed symbol within a compressed data block having a plurality of compressed symbols having a fixed length and fixed offset to generate an uncompressed symbol by analyzing encoded tag bits within a compressed symbol and decompressing the compressed symbol to form a symbol based upon a type of compression indicated by the encoded tag bits, wherein the decompression units decompress the compressed symbols in parallel (col. 7, II. 20-30 and col. 35, II. 61-64), wherein the plurality of decompression unites are needed for implementing the parallel decompression;

receiving a fixed offset compressed data block having a plurality compressed symbols (col. 7, II. 20-30 and col. 33, II. 56-62); and

decompressing a randomly accessed and a first compressed symbol within the compressed data block (col. 7, II. 20-30 and col. 33, II. 56-62), wherein the randomly access is enabled by the parallelism; by:

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analyzing encoded tag bit within a compressed symbol (col. 7, II. 20-30 and col. 35, II. 61-64); and

decompressing the compressed symbol to form a symbol based upon a type of compression indicated by the encoded tag bits (col. 7, II. 20-30 and col. 35, II. 61-64).

<u>Dye</u> does not teach the decompression system and method comprising receiving a plurality of dictionary elements

Goldberg teaches a data decompression system and method comprising receiving a compressed data having a dictionary element along with the compressed data (col. 1, II. 17-40).

It would have been obvious to one of ordinary skill in this art, at the time of invention was made to include <u>Goldberg</u>'s dictionary element into <u>Dye</u> 's decompression system and method for the benefit of optimizing the amount of data transferred by reducing the actual amount of data transferred and enabling more resources for error detection and data correction (<u>Goldberg</u>, col. 1, II. 23-26). The resulting combination of the references further teaches the decompression system and method comprising wherein the received compressed data (e.g. fixed offset compressed data block) having the plurality of dictionary elements.

23. As per claim 21, <u>Dye</u> and <u>Goldberg</u> teaches all the limitations of claim 19 as discussed above, where <u>Dye</u> further teaches the system comprising wherein each decompression unit comprises logic to decode the encoded tag bits component of a

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compressed symbol to generate a matched symbol component (<u>Dye</u>, col. 7, II. 20-30 and col. 35, II. 61-64).

Claims 18 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Dye et al.</u> (US Patent 6,879,266) in view of <u>Goldberg</u> (US Patent 7,035,656) as applied to claims 15 and 19 above, and further in view of <u>Castelli et al.</u> (US Patent 6,847,315).

<u>Dye</u> and <u>Goldberg</u> teach all the limitations of claims 15 and 21 as discussed above, where <u>Dye</u> further teaches the system and method comprising decoding the tag to form a matched component of the symbol (<u>Dye</u>, col. 7, II. 20-30; col. 24, II. 2-54 and col. 35, II. 61-64); and combining the matched component to form the symbol (<u>Dye</u>, col. 7, II. 20-30; col. 24, II. 2-54 and col. 35, II. 61-64).

<u>Dye</u> and <u>Goldberg</u> do not teach the decompression system and method comprising combining the matched component with an unmatched component within the compressed symbol.

Castelli teaches a data compression and decompression system and method comprising a data compressor separating a uncompressed data into a first portion and a second portion, wherein one of the portion is left uncompressed and the other portion is compressed forming a compressed data entry (Fig. 7; col. 1, II. 60-65 and col. 2, II. 10-18), therefore it would be necessary, during the decompression of data, to combined the uncompressed potion with the decompressed compressed portion to form the original uncompressed data.

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It would have been obvious to one of ordinary skill in this art, at the time of invention was made to include <u>Castelli</u>'s compressed and compressed data into <u>Dye</u> and <u>Goldberg</u>'s the decompression system and method for the benefit of reducing latency associated with the transferring of compressed data as data is compressed at the transmitter, transmitted in compressed form and decompressed at the receiver (<u>Castelli</u>, coi. 1, II. 57-59). The resulting combination of the references further teaches the decompression system and method comprising combining the uncompressed data (e.g. unmatched component) within the compressed symbol with the decompressed compressed data (e.g. matched component) to form the original uncompressed data (e.g. symbol).

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### V. CLOSING COMMENTS

### Conclusion

### a. STATUS OF CLAIMS IN THE APPLICATION

The following is a summary of the treatment and status of all claims in the application as recommended by M.P.E.P. 707.07(i):

## a(1) CLAIMS REJECTED IN THE APPLICATION

Per the instant office action, claims 1-3, 5-9, 11-15, 18-19 and 21-28 have received a first action on the merits and are subject of a first action non-final.

## b. <u>DIRECTION OF FUTURE CORRESPONDENCES</u>

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chun-Kuan (Mike) Lee whose telephone number is (571) 272-0671. The examiner can normally be reached on 8AM to 5PM.

# **IMPORTANT NOTE**

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alford Kindred can be reached on (571) 272-4037. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

November 14, 2007

Chun-Kuan (Mike) Lee Examiner Art Unit 2181

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ALFORD KINDRED

EXAMINER